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Dated: 11/26/03 Signature: Joanne Ryan
(Joanne Ryan)

1614
Docket No.: COTH-P02-001
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Afeyan et al.

Application No.: Not Yet Assigned 10/650591

Confirmation No.:

Filed: August 27, 2003

Art Unit: N/A

For: ADZYMES AND USES THEREOF

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

A copy of each foreign and non-patent reference on PTO/SB/08 is attached.

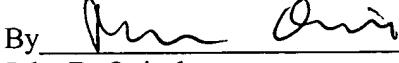
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. COTH-P02-001.

Dated: November 26, 2003

Respectfully submitted,

By 
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Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2	Attorney Docket Number	COTH-P02-001
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Complete if Known

Application Number	Not Yet Assigned
Filing Date	August 27, 2003
First Named Inventor	Noubar B. Afeyan
Art Unit	N/A
Examiner Name	Not Yet Assigned

10/650,591

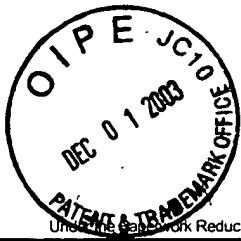
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	2002/0019039-A1	02-14-2002	Davis et al.		
AB	4,671,958	06-09-1987	Rodwell et al.		
AC	5,935,823	08-10-1999	Fowlkes et al.		
AD	6,287,561	09-11-2001	Crea, R.		
AE	6,383,775-B1	05-07-2002	Duff et al.		
AF	6,399,355-B1	06-04-2002	Kwong et al.		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BA	-WO 00/64485-A2		11-02-2000	Genencor International, Inc. et al.	
BB	-WO 90/02338-A1		03-08-1990	The General Hospital Corporation	
BC	-WO 01/42432-A2		06-14-2001	Medical Research Council	
BD	-WO 98/16633-A1		04-23-1998	Novo Nordisk A/S	
BE	-WO 02/055108-A1		07-18-2002	Centre National de la Recherche Scientifique et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
CA	Bayer, E.A. et al. Affinity Cleavage and Targeted Catalysis of Proteins Using the Avidin-Biotin System. Biochemistry 29, 11274-79 (1990).				
CB	Bond, R. et al. Silicon Biotechnology: New Opportunities for Carbohydrate Science. Aust. J. Chem. 56, 7-11 (2003)				
CC	Bradbury, R.J. Protein Based Assembly of Nanoscale Parts. (May 1, 2003) Retrieved from http://www.aeiveos.com/~bradbury/Papers/PBAoNP.html on 8/25/03				
CD	Hosseini, M.W. Molecular Tectonics: From Simple Molecules to Complex Molecular Networks. Universite Louis Pasteur, Strasbourg, France				
CE	Alvarez, S. Engineering Protein Molecules for the Ordered Structuring of Silica. National Nanofabrication Users Network, pp. 82-3.				
CF	Davis, B.G. et al. Controlled Site-Selective Glycosylation of Proteins by a Combined Site-Directed Mutagenesis and Chemical Modification Approach. J. Org. Chem. 63, 9614-15 (1998)				
CG	Davis, B.G. et al. Selective Protein Degradation by Ligand-Targeted Enzymes: Towards the Creation of Catalytic Antagonists. ChemBioChem 4, 531-40 (2003)				
CH	Freitas, Jr., R.A. Mechanoenzymes: A non-SPM-based approach to molecular				

Examiner Signature	Date Considered
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PTO/SB/08a/b (06-03)

Approved for use through 07/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	August 27, 2003
				First Named Inventor	Noubar B. Afeyan
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	COTH-P02-001

		mechanoassembly (February 21, 2000) Retrieved from http://www.aeiveos.com/~bradbury/Authors/Engineering/Freitas-RA/MAnSPMBAtMM.html on 8/25/03	
	CI	Sumerel, et al. Biotechnology Provides a New Route to Semiconductors. 2003	
	CJ	MacLennan, Bruce. Molecular Combinatory Computing for Nanostructure Synthesis and Control. Department of Computer Science, University of Tennessee	
	CK	Maoz, R. et al. Self-Assembly and Nanofabrication: Is a Happy Marriage Possible? Department of Materials and Interfaces, The Weizmann Institute of Science, Rehovot, Israel	
	CL	Quake, S.R. et al. From Micro- to Nanofabrication with Soft Materials. Science 290, 1536-40 (November 24, 2000)	
	CM	Stupp, S.I. Self Assembly of Nanostructures and Functional Materials. Dept. of Materials Science and Engineering, Dept. of Chemistry, Feinberg Medical School, Northwestern University	
	CN	Whaley, S.R. et al. Selection of peptides with semiconductor binding specificity for directed nanocrystal assembly. Nature 405, 665-68 (June 8, 2000)	
	CO	Zhou, Huan-Xiang. Quantitative Account of the Enhanced Affinity of Two Linked scFvs Specific for Different Epitopes on the Same Antigen. J. Mol. Biol. 329, 1-8 (2003)	
	CP	Lim et al. BCR/ABL inhibition by an escort/phosphatase fusion protein. PNAS October 24, 2000 97(22): 12233-12238	
	CQ	Runge et al. Mol Biol Med Hybrid molecules: insights into plasminogen activator function. 1991 Apr 8(2):245-55	
	CR	Frankel et al. Diphtheria fusion protein therapy of chemoresistant malignancies. Curr Cancer Drug Targets 2(1), 19-36 (2002)	
	CS	Springer et al. Prodrugs of thymidylate synthase inhibitors: potential for antibody directed enzyme prodrug therapy (ADEPT). Anticancer-Drug-Des. 11(8), 625-36 (1996)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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